

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Julia ADAM-WORRALL et al.

Docket No. 2004.831 US

Serial No.:

10/590,674

Filing Date:

August 25, 2006

Group Art Unit: ----

Examiner:

Title: (INDOL-3-YL)-HETEROCYCLE DERIVATIVES

AS AGONISTS OF THE CANNABINOID CB 1

RECEPTOR

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 CERTIFICATE OF MAILING
I hereby certify that this correspondence is being deposited with the United States Postal Service as First-Class mail in an envelope Addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

| on | March 8, 2007 | | | | | |
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| | Lynn Brush | | | | | |
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INFORMATION DISCLOSURE STATEMENT

In accordance with the requirements of 37 CFR §1.56, applicants submit the documents attached hereto. Pursuant to the United States Patent and Trademark Office, OG Notice 05 August 2003, applicants have excluded copies of the one (1) U.S. patent document. All documents are to be made of record in the above-identified case. A listing of said documents on form PTO-1449 is also attached.

It is believed that the present Information Disclosure Statement is being filed prior to the mailing date of the First Office Action; therefore, no filing fee is believed to be required. If a filing fee is required, the Commissioner is hereby authorized to charge applicants' deposit account 01-1350 for the full amount of said fee.

This statement is not intended to represent that no better art exists. Applicants reserve the right to contest the applicability of the documents attached hereto as prior art in the event that any information is discovered which demonstrates that said documents do not qualify as prior art.

Consideration of the present Information Disclosure Statement is respectfully requested. The claimed invention is, however, deemed to represent a patentable departure from the teachings of the prior art.

Respectfully submitted,

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| | INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) | | | | Atty. Docket # 2004.831 US | | | Serial No. 10/590,674 | | | |
| PTO-1449 (modified) | | | | 2004.831 US | | | | | | | |
| MAR | 1 2 2002 B | Applicant Julia ADAM-WORRALL et al. | | | | | | | | | |
| MAR I 2 2007 | | | | Filing Date Group Art Unit August 25, 2006 | | | | | | | |
| U.S.A | PATENT DOCUMENTS | | | The Control | | | | | | | |
| Init | Document No. | Issue Date | | Name | Class | Subclass | | Filing Date | | | |
| | 4,939,138 | 07-1990 | D'Ambra et | al. | 514 | 218 | | | | | |
| FOR | EIGN PATENT DOCUME | _ NTS:::::::::::::::::::::::::::::::::::: | | | | | | < %. | | | |
| | Document No. | Publ. Date | | Country Class | | Subclass | Translation | | | | |
| | | | | | | | Yes | No | | | |
| | WO 01/58869 A2&A3 | 08-2001 | PCT Interna | ational | C07D | 209/42 | | | | | |
| | WO 02/36590 A1 | 05-2002 | PCT Interna | ational | C07D | 413/14 | | | | | |
| | WO 02/060447 A1 | 08-2002 | PCT Interna | ational | A61K | 31/4439 | | Ì | | | |
| | WO 2004/000832 A1 | 12-2003 | PCT Interna | ational | C07D | 403/06 | | | | | |
| ОТНІ | RIDOCUMENTS (Inclu | ding Author, | Title, Date, | Pertinent Pag | es, etc.) | continued o | n page 2 | 2 | | | |
| | International Search Repo | rt for Application | n No. PCT/E | P2005/050833 c | lated June | 21, 2005. | | gradio Logistico | | | |
| | | International Preliminary Examination Report on Patentability of International Application No. PCT/EP2005/050833 dated January 31, 2006. | | | | | | | | | |
| | Written Opinion of Internat | Written Opinion of International Application No. PCT/EP2005/050833 dated June 21, 2006. Howlett, A. C. et al., "International Union of Pharmacology. XXVII. Classification of Cannabinoid Receptors," Pharmacological Reviews, Vol. 54, No. 2 (2002) pp. 161-202. | | | | | | | | | |
| | | | | | | | | | | | |
| | Iversen, L. et al., "Cannabinoids: a real prospect for pain relief?," Current Opinion in Pharmacology, Vol. 2 (2002) pp. 50-55. | | | | | | | | | | |
| | Eissenstat, M. A. et al., "Aminoalkylindoles: Structure-Activity Relationships of Novel Cannabinoid Mimetics," J. Med. Chem., Vol. 38 (1995), pp. 3094-3105. | | | | | | | | | | |
| | Adam. J. et al., "Recent advances in the cannabinoids," Expert Opin. Ther. Patents, Vol. 12 (2002) pp. 1475-1489. | | | | | | | | | | |
| | van Wijngaarden, I. et al., "Development of High-Affinity 5-HT ₃ Receptor Antagonists. Structure-Affinity Relationships of Novel 1,7-Annelated Indole Derivatives," J. Med. Chem., Vol. 36 (1993) pp. 3693-3699. | | | | | | | | | | |
| | Hwu, J. R. et al., "Novel Methods for the Synthesis of Functionalized Indoles from Arylhydroxylamines and Activated Acetylenes," J. Org. Chem., Vol. 59 (1994) pp. 1577-1582. | | | | | | | | | | |
| | Robinson, B., "Recent Stu | | | | . Rev., Vol. | 63 (1963) pp. | . 227-250 | , | | | |
| | Miyaura, N. et al., "Palladium-Catalyzed Cross-Coupling Reactions of Organoboron Compounds," Chem. Rev., Vol. 95 (1995) pp. 2457-2483. | | | | | | | | | | |
| | Stratowa, C. et al., "Use of a luciferase reporter system for characterizing G-protein-linked receptors," Current Opinion in Biotechnology, Vol. 6 (1995) pp. 574-581. | | | | | | | | | | |
| | Luly, J. R. et al., "A Synthesis of Protected Aminoalkyl Epoxides from α-Amino Acids," J. Org. Chem., Vol. 52 (1987) pp. 1487-1492. | | | | | | | | | | |
| | Jutz, C., "The Vilsmeier-H | | | Bond-Forming | Reactions | of Chlorometh | nylenimini | um lons, | | | |
| EXAM | Adv. Org. Chem., Vol. 9, P MINER | ait i (1970) pp. | | TE CONSIDER | RED | | | | | | |
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.